

INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2005/003150

A. CLASSIFICATION OF SUBJECT MATTER

H01M2/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 567 542 A (BAE ET AL) 22 October 1996 (1996-10-22) column 3, line 25 - line 67; claims 1-19; figures 3-5	1-4, 23
X	DE 44 45 738 A1 (HYUNDAI MOTOR CO., SEOUL/SOUL, KR) 22 June 1995 (1995-06-22) column 4, line 1 - line 62; claims 1-6; figures 3-5	1-4, 23
X	US 5 871 861 A (HIROKOU ET AL) 16 February 1999 (1999-02-16) column 12, line 20 - column 13, line 18; claims 1-14; figure 7	1-4, 23
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☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

G document member of the same patent family

Date of the actual completion of the international search

31 March 2006

Date of mailing of the international search report

06/04/2006

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 5 674 641 A (CHEU ET AL) 7 October 1997 (1997-10-07) column 6, line 13 - column 7, line 32; claims 1-10; figure 5 -----	1-4, 23
A	EP 1 059 682 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD; TOYOTA JIDOSHA KABUSHIKI KAIS) 13 December 2000 (2000-12-13) the whole document -----	
A	US 3 061 662 A (TOCE CHARLES A ET AL) 30 October 1962 (1962-10-30) the whole document -----	
A	US 4 020 244 A (SELINKO ET AL) 26 April 1977 (1977-04-26) the whole document -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2005/003150

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5567542	A	22-10-1996	NONE
DE 4445738	A1	22-06-1995	NONE
US 5871861	A	16-02-1999	JP 7282841 A 27-10-1995
US 5674641	A	07-10-1997	AU 5541894 A 24-05-1994 WO 9410710 A1 11-05-1994
EP 1059682	A	13-12-2000	CN 1277462 A 20-12-2000 DE 60000322 D1 19-09-2002 DE 60000322 T2 22-05-2003 JP 2001057196 A 27-02-2001 US 6275003 B1 14-08-2001
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US 4020244	A	26-04-1977	NONE